3M Ultra-Clean Double Coated PET Tape
UCT-10

Technical Data

Product Description

3M™ Ultra-Clean Double Coated PET Tape UCT-10 is double coated for dimensional stability and improved handling with ease of die cutting and laminating. The both sides are high adhesion adhesive which make the tape suitable for converting and assembly operation and provides good adhesion to a variety of surfaces.

Construction

<table>
<thead>
<tr>
<th>Adhesive 1 Thickness</th>
<th>Carrier Type Thickness</th>
<th>Adhesive 2 Thickness</th>
<th>Liner 1 Type Liner Thickness Color</th>
<th>Liner 2 Type Liner Thickness Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.004 mm</td>
<td>PET 0.002 mm</td>
<td>0.004 mm</td>
<td>PET Liner 0.036 mm Clear</td>
<td>PET Liner 0.075 mm Clear</td>
</tr>
</tbody>
</table>

Typical Physical Properties

Adhesion Peel: ASTM D-3330 modified
12 inch/min peeling speed and 2 mil PET Film Backer

<table>
<thead>
<tr>
<th>Material</th>
<th>20 minute dwell</th>
<th>72 hour dwell</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>180° peel (N/mm)</td>
<td>180° peel (N/mm)</td>
</tr>
<tr>
<td>SS</td>
<td>0.44</td>
<td>0.50</td>
</tr>
<tr>
<td>PC</td>
<td>0.46</td>
<td>0.51</td>
</tr>
<tr>
<td>ABS</td>
<td>0.36</td>
<td>0.43</td>
</tr>
<tr>
<td>PP</td>
<td>0.10</td>
<td>0.10</td>
</tr>
</tbody>
</table>
**3M™ Ultra-Clean Double Coated PET Tape**

**UCT-10**

### Environmental Performance

**Humidity Resistance:** High humidity has a minimal effect on adhesive performance. Bond strength (is generally higher/shows no significant reduction) after exposure for 7 days at 90°F (32°C) and 90% relative humidity.

**UV Resistance:** When properly applied, nameplates and decorative trim parts are not adversely affected by outdoor exposure.

**Temperature Cycling Resistance:** High bond strength (is maintained/increases) after cycling four times through:
- 4 hours at 158°F (70°C)
- 4 hours at -20°F (-29°C)
- 4 hours at 73°F (22°C)

**Chemical Resistance:** When properly applied, nameplate and decorative trim parts will hold securely after exposure to numerous chemicals including oil, mild acids and alkalis.

**Bond Build-up:** The bond strength of 3M™ UCT-10 increases as a function of time and temperature

**Temperature/Heat Resistance:** 3M™ UCT-10 is usable for short periods (minutes, hours) at temperatures up to 350°F (177°C) and for intermittent longer periods (days, weeks) up to 185°F (75°C).

**Lower Temperature Service Limit:** 50°F (10°C).

### Typical Physical Properties (cont.)

#### Static Shear Strength

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Size</th>
<th>Weight</th>
<th>Minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>72°F (23°C)</td>
<td>1” x 1”</td>
<td>1000 grams</td>
<td>10080</td>
</tr>
<tr>
<td>158°F (70°C)</td>
<td>1” x 1”</td>
<td>1000 grams</td>
<td>5000</td>
</tr>
</tbody>
</table>

* Test terminated at 10,000 minutes
* Test method: ASTM D3654

### Application Ideas

- Plastic film lamination/bonding
- Process bonding
- Foam bonding
- Graphite sheet bonding
Available Sizes
Master Width: 1000mm
Contact 3M for information on other size availability.

Storage
Store under normal conditions of 70°F (21°C) and 50% relative humidity in the original carton.

Shelf Life
To obtain best performance, use this product within 12 months from date of manufacture.

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Industrial Adhesives and Tapes Division
Converter Markets
3M Center, Building 225-3S-06
St. Paul, MN 55144-1000
800-362-3550
www.3M.com/ converter

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